

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits   | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|--------|---|---|------------------|---------|------------------|
| L1    | 0      | (detect\$3 or determining)and structural adj data and (lightweight adj rim or wheel adj rim or light adj weight)and parameters  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB       | OR               | ON      | 2010/01/25 14:32 |
| L2    | 2112   | automotive adj vehicle and (lightweight adj rim or wheel adj rim or light adj weight)   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB       | OR               | ON      | 2010/01/25 14:34 |
| L3    | 1      | collect\$3 adj data and (lightweight adj rim or wheel adj rim)and(vehicle or automotive)and spoke adj structure   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB       | OR               | ON      | 2010/01/25 14:39 |
| L4    | 1      | (lightweight adj rim or wheel adj rim or light adj weight)and structure and(prepar\$3 or obtaining or preselect\$3)and parameter and(bio adj mineralized adj unicellular adj organisms) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB       | OR               | ON      | 2010/01/25 14:41 |
| L5    | 118823 | (lightweight adj rim or wheel adj rim or light adj weight)and structure   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB       | OR               | ON      | 2010/01/25 14:42 |
| L6    | 395    | L5 and collect\$3 adj data and (lightweight adj rim or wheel adj rim or light adj weight or spokes)and(vehicle or automotive)   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB       | OR               | ON      | 2010/01/25 14:42 |
| L7    | 1      | L6 and(bio adj mineralized adj unicellular adj organisms or shell adj architectures)and (lightweight adj rim or wheel adj rim or light adj weight or spokes)                            | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB       | OR               | ON      | 2010/01/25 14:43 |
| L8    | 268    | L6 and(CAD or SEM or arachnoidiscus or FEM or finite adj element adj method or software)and(model\$1 or prototype or template)  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB       | OR               | ON      | 2010/01/25 14:49 |
| L9    | 186    | L8 and(scaling or copying or combining or optimizing)   | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2010/01/25 14:51 |

|     |       |   |   |    |    |                  |
|-----|-------|---|---|----|----|------------------|
| L10 | 0     | L9 and(preselecting or selecting) and (bio adj mineralized adj unicellular adj organisms or shell adj architectures)and shell adj architectures and parameters    | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/25 14:53 |
| L11 | 0     | L9 and(pre adj selecting or selecting)and(bio adj mineralized adj unicellular adj organisms or shell adj architectures)and shell adj architectures and parameters | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/25 14:53 |
| L12 | 1     | L9 and(pre adj selecting or selecting)and(bio adj mineralized adj unicellular adj organisms or shell adj architectures)and parameters                             | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/25 14:54 |
| S1  | 56    | lightweight adj rim   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 10:51 |
| S2  | 0     | S1 and diatoms and microstructure   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 10:52 |
| S3  | 2     | S1 and diatoms  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 10:52 |
| S4  | 1     | S1 and automotive adj vehicle   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:00 |
| S5  | 51610 | automotive adj vehicle  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:01 |
| S6  | 1     | S5 and lightweight adj rim  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:02 |
| S7  | 528   | S5 and(lightweight adj rim or wheel adj rim)  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:03 |
| S8  | 0     | S7 and(lightweight adj rim or wheel adj rim)and inner adj rim adj body  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:05 |

|     |     |  |   |    |    |                     |
|-----|-----|--|---|----|----|---------------------|
| S9  | 0   | S7 and(rim or wheel adj rim)<br>and inner adj rim adj body   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/19<br>11:05 |
| S10 | 0   | (vehicle or automotive)and(rim<br>or wheel adj rim)and inner adj<br>rim adj body                               | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/19<br>11:06 |
| S11 | 0   | (vehicle or automotive)and(rim<br>or wheel adj rim)and inner adj<br>rim  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/19<br>11:07 |
| S12 | 1   | S7 and(lightweight adj rim or<br>wheel adj rim)and inner adj rim<br>adj body                                   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/19<br>11:07 |
| S13 | 1   | S7 and(lightweight adj rim or<br>wheel adj rim or spoke)and<br>inner adj rim adj body                          | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/19<br>11:08 |
| S14 | 1   | (plurality or plural\$1)and(rib adj<br>structuregth or wheel adj rim or<br>spoke)and inner adj rim adj<br>body | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/19<br>11:11 |
| S15 | 1   | (plurality or plural\$1)and(rib adj<br>structur or wheel adj rim or<br>spoke)and inner adj rim adj<br>body     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/19<br>11:12 |
| S16 | 131 | annular adj spokes   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/19<br>11:13 |
| S17 | 109 | S16 and(@ad< "20031130" or<br>@rlad< "20031130" or<br>@prad< "20031130" or<br>@ptad< "20031130")               | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/19<br>11:21 |
| S18 | 102 | S17 and @ad< "20031130"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/19<br>11:21 |
| S19 | 2   | S18 and spoke adj structure  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/19<br>11:23 |

|     |     |  |   |    |     |                     |
|-----|-----|--|---|----|-----|---------------------|
| S20 | 2   | S19 and @ad<"20031130"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/03/19<br>11:23 |
| S21 | 2   | S17 and spoke adj structure  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/03/19<br>11:35 |
| S22 | 3   | S7 and inner same rim adj body   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/03/19<br>11:36 |
| S23 | 3   | S7 and inner and rim adj body  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/03/19<br>11:36 |
| S24 | 102 | ((("20070112522") or<br>("5434962") or ("6155450") or<br>("5564381") or ("5355474") or<br>("4609912") or ("4772632") or<br>("5284774") or ("5434952") or<br>("5557503") or ("6087228") or<br>("6178805") or ("5616376") or<br>("4380569") or ("4493203") or<br>("4522390") or ("4604844") or<br>("4791965") or ("4825578") or<br>("4941767") or ("5187826") or<br>("5199530") or ("5214572") or<br>("5560137") or ("5634483") or<br>("5771992") or ("5857732") or<br>("5955013") or ("5966896") or<br>("5966894") or ("6116644") or<br>("6135017") or ("6194790") or<br>("5981094") or ("5999010") or<br>("4027004") or ("4294661") or<br>("4385957") or ("4526312") or<br>("4544901") or ("4600852") or<br>("4604706") or ("4763902") or<br>("4849668") or ("4902787") or<br>("4988919") or ("5206951") or<br>("5207371") or ("5226161") or<br>("5256990") or ("").pn.")).PN. | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/03/19<br>11:38 |
| S25 | 1   | S5 and S24   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/03/19<br>11:38 |
| S26 | 0   | automobile adj wheel and inner<br>adj rim and mounted adj axle<br>and outer adj rim  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/03/19<br>11:42 |

|     |    |   |   |    |    |                     |
|-----|----|---|---|----|----|---------------------|
| S27 | 0  | automobile adj wheel and inner adj rim and mounted adj axle and outer adj rim                               | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/19<br>11:42 |
| S28 | 1  | S24 and automotive adj vehicle  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/19<br>11:43 |
| S29 | 1  | S28 and rib adj like and radial adj spokes  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/19<br>11:44 |
| S30 | 1  | structural and prototype adj data and(lightweight adj rim or wheel adj rim)                                 | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/19<br>11:47 |
| S31 | 1  | structural adj data and (lightweight adj rim or wheel adj rim)and(vehicle or automotive)                    | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/19<br>11:48 |
| S32 | 59 | collect\$3 adj data and (lightweight adj rim or wheel adj rim)and(vehicle or automotive)                    | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/19<br>11:49 |
| S33 | 0  | S32 and automobile adj wheel and(inner or outer)adj rim and mounted adj axle                                | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/19<br>11:50 |
| S34 | 0  | S32 and (inner or outer)adj rim and mounted adj axle  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/19<br>11:50 |
| S35 | 0  | S32 and (inner or outer)adj rim adj body and mounted adj axle   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/19<br>11:51 |
| S36 | 0  | S32 and vechicle and inner adj rim  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/19<br>11:51 |
| S37 | 1  | S32 and collect\$3 adj data and diatoms and(lightweight adj rim or wheel adj rim)and(vehicle or automotive) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/19<br>11:53 |

|     |        |   |   |    |    |                  |
|-----|--------|---|---|----|----|------------------|
| S38 | 6      | S32 and collect\$3 adj data and (diatoms or microstructure)and (lightweight adj rim or wheel adj rim)and(vehicle or automotive)   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:54 |
| S39 | 0      | S38 and @ad<"20031130"  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:54 |
| S40 | 5      | S38 and(@ad<"20031130" or @rlad<"20031130" or @prad<"20031130" or @ptad<"20031130")   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:54 |
| S41 | 0      | S32 and mounted adj axle  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 11:59 |
| S42 | 1      | S32 and rim adj body and spoke adj structure  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 12:01 |
| S43 | 1      | S38 and rim adj body and spoke adj structure  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/19 12:02 |
| S44 | 1      | ((CHRISTIAN) near2 (HAMM-DUBISCHAR)).INV.   | US-PGPUB; USPAT                             | OR | ON | 2009/03/19 12:10 |
| S45 | 1      | (automotive and vehicle and inner adj rim adj body and outer adj rim and spoke adj structure and determining and structural adj data and prototype and lightweight and radial adj spokes and width and annular adj spokes).CLM. | US-PGPUB                                    | OR | ON | 2009/03/19 12:14 |
| S46 | 113643 | (lightweight adj rim or wheel adj rim or light adj weight)and structure   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/23 10:28 |
| S48 | 380    | S46 and collect\$3 adj data and (lightweight adj rim or wheel adj rim or light adj weight or spokes)and(vehicle or automotive)  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/23 10:31 |
| S49 | 13     | S48 and(CAD or SEM or arachnoidiscus or FEM or finite adj element adj method)and (model\$1 or prototype or template)  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/23 10:35 |

|     |     |  |   |    |    |                     |
|-----|-----|--|---|----|----|---------------------|
| S50 | 1   | S49 and(prepar\$3 or obtaining) and parameter and (bio adj mineralized adj unicellular adj organisms)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/23<br>10:39 |
| S51 | 0   | S50 and(@ad<"20031130" or @rlad<"20031130" or @prad<"20031130" or @ptad<"20031130")  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/23<br>10:39 |
| S52 | 1   | (bio adj mineralized adj unicellular adj organisms)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/23<br>10:40 |
| S53 | 1   | bio adj mineralized adj unicellular adj organisms  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/23<br>10:41 |
| S54 | 113 | (bio adj mineralized adj unicellular adj organisms or shell adj architectures)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/23<br>10:42 |
| S55 | 1   | (bio adj mineralized adj unicellular adj organisms or shell adj architectures)and collect\$3 adj data and (lightweight adj rim or wheel adj rim or light adj weight or spokes)and(vehicle or automotive) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/23<br>10:43 |
| S56 | 1   | (bio adj mineralized adj unicellular adj organisms or shell adj architectures)and (lightweight adj rim or wheel adj rim or light adj weight or spokes)and(vehicle or automotive)                         | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/23<br>10:43 |
| S57 | 3   | (bio adj mineralized adj unicellular adj organisms or shell adj architectures)and (lightweight adj rim or wheel adj rim or light adj weight or spokes)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/23<br>10:43 |
| S58 | 2   | S54 and preselection and (diatoms or radiolaria or arachnoidiscus)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/23<br>10:47 |
| S59 | 0   | S58 and(@ad<"20031130" or @rlad<"20031130" or @prad<"20031130" or @ptad<"20031130")  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/23<br>10:47 |

|     |     |  |   |    |     |                     |
|-----|-----|--|---|----|-----|---------------------|
| S60 | 2   | S54 and(diatoms or radiolaria or arachnoidiscus)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/07/23<br>10:48 |
| S61 | 4   | preselect\$3 and(bio adj mineralized adj unicellular adj organisms or shell adj architectures)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/07/23<br>10:48 |
| S62 | 1   | S61 and(@ad<"20031130" or @rlad<"20031130" or @prad<"20031130" or @ptad<"20031130")  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/07/23<br>10:48 |
| S63 | 1   | S61 and @ad<"20031130"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/07/23<br>10:49 |
| S64 | 0   | S63 and(lightweight adj rim or wheel adj rim or light adj weight or spokes)and(vehicle or automotive)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/07/23<br>10:51 |
| S65 | 0   | S63 and(lightweight adj rim or wheel adj rim or light adj weight or spokes)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/07/23<br>10:51 |
| S66 | 102 | ((("20070112522") or ("5434962") or ("6155450") or ("5564381") or ("5355474") or ("4609912") or ("4772632") or ("5284774") or ("5434952") or ("5557503") or ("6087228") or ("6178805") or ("5616376") or ("4380569") or ("4493203") or ("4522390") or ("4604844") or ("4791965") or ("4825578") or ("4941767") or ("5187826") or ("5199530") or ("5214572") or ("5560137") or ("5634483") or ("5771992") or ("5857732") or ("5955013") or ("5966896") or ("5966894") or ("6116644") or ("6135017") or ("6194790") or ("5981094") or ("5999010") or ("4027004") or ("4294661") or ("4385957") or ("4526312") or ("4544901") or ("4600852") or ("4604706") or ("4763902") or ("4849668") or ("4902787") or ("4988919") or ("5206951") or ("5207371") or ("5226161") or ("5256990") or ("").pn.)).PN. | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/07/23<br>11:02 |



|     |      |   |   |    |    |                     |
|-----|------|---|---|----|----|---------------------|
| S67 | 100  | S66 and(@ad<"20031130" or @rlad<"20031130" or @prad<"20031130" or @ptad<"20031130")   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/23<br>11:03 |
| S68 | 0    | S67 and(bio adj mineralized adj unicellular adj organisms or shell adj architectures)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/23<br>11:03 |
| S69 | 0    | S67 and(diatoms or radiolaria or arachnoidiscus)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/23<br>11:03 |
| S70 | 0    | S67 and collect\$3 adj data and (lightweight adj rim or wheel adj rim or light adj weight or spokes)and(vehicle or automotive)                                | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/23<br>11:04 |
| S71 | 1    | S66 and(bio adj mineralized adj unicellular adj organisms or shell adj architectures)and (lightweight adj rim or wheel adj rim or light adj weight or spokes) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/23<br>11:05 |
| S72 | 1    | S66 and rim adj body and spoke adj structure  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/23<br>11:06 |
| S73 | 847  | 403/169,170,171.CCLS.   | USPAT   | OR | ON | 2009/07/23<br>11:07 |
| S74 | 0    | S73 and rim adj body and spoke adj structure  | USPAT   | OR | ON | 2009/07/23<br>11:08 |
| S75 | 0    | S73 and collect\$3 adj data and (lightweight adj rim or wheel adj rim or light adj weight or spokes)and(vehicle or automotive)                                | USPAT   | OR | ON | 2009/07/23<br>11:08 |
| S76 | 0    | S73 and(bio adj mineralized adj unicellular adj organisms or shell adj architectures)   | USPAT   | OR | ON | 2009/07/23<br>11:09 |
| S77 | 0    | S73 and preselection and (diatoms or radiolaria or arachnoidiscus)  | USPAT   | OR | ON | 2009/07/23<br>11:10 |
| S78 | 3171 | 264/255,250,241.ccls.   | USPAT   | OR | ON | 2009/07/23<br>11:11 |
| S79 | 0    | S78 and rim adj body and spoke adj structure  | USPAT   | OR | ON | 2009/07/23<br>11:11 |

|     |      |   |   |    |    |                  |
|-----|------|---|---|----|----|------------------|
| S80 | 0    | S78 and collect\$3 adj data and (lightweight adj rim or wheel adj rim or light adj weight or spokes)and(vehicle or automotive)                                      | USPAT   | OR | ON | 2009/07/23 11:11 |
| S81 | 0    | S78 and(bio adj mineralized adj unicellular adj organisms or shell adj architectures)   | USPAT   | OR | ON | 2009/07/23 11:12 |
| S82 | 0    | S78 and preselection and (diatoms or radiolaria or arachnoidiscus)  | USPAT   | OR | ON | 2009/07/23 11:12 |
| S83 | 2210 | 333/208,24R,202,208.ccls.   | USPAT   | OR | ON | 2009/07/23 11:13 |
| S84 | 0    | S83 and rim adj body and spoke adj structure  | USPAT   | OR | ON | 2009/07/23 11:13 |
| S85 | 0    | S83 and collect\$3 adj data and (lightweight adj rim or wheel adj rim or light adj weight or spokes)and(vehicle or automotive)                                      | USPAT   | OR | ON | 2009/07/23 11:13 |
| S86 | 0    | S83 and(bio adj mineralized adj unicellular adj organisms or shell adj architectures)   | USPAT   | OR | ON | 2009/07/23 11:13 |
| S87 | 0    | S83 and preselection and (diatoms or radiolaria or arachnoidiscus)  | USPAT   | OR | ON | 2009/07/23 11:14 |
| S88 | 3    | (bio adj mineralized adj unicellular adj organisms or shell adj architectures)and (lightweight adj rim or wheel adj rim or light adj weight or spokes)and structure | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB       | OR | ON | 2009/07/23 11:26 |
| S89 | 0    | S88 and(@ad<"20031130" or @riad<"20031130" or @prad<"20031130" or @ptad<"20031130")   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB       | OR | ON | 2009/07/23 11:27 |
| S90 | 3337 | S46 and(rim adj bed or rim adj body or circular adj disc or radial adj spokes or annular adj spoke or spoke adj structure or central adj bore or rounding or bore3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB       | OR | ON | 2009/07/23 11:32 |
| S91 | 124  | S90 and(CAD or SEM or arachnoidiscus or FEM or finite adj element adj method)and (model\$1 or prototype or template)  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB       | OR | ON | 2009/07/23 11:32 |
| S92 | 1    | S91 and(CAD or SEM or arachnoidiscus or FEM or finite adj element adj method)and (model\$1 or prototype or template)and(diatoms or radiolaria or arachnoidiscus)    | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/23 11:33 |

|      |     |  |   |    |    |                  |
|------|-----|--|---|----|----|------------------|
| S93  | 124 | S91 and(CAD or SEM or arachnoidiscus or FEM or finite adj element adj method or model\$1 or prototype or template)   | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/23 11:34 |
| S94  | 0   | S93 and(bio adj mineralized adj unicellular adj organisms or shell adj architectures)  | USPAT   | OR | ON | 2009/07/23 11:35 |
| S95  | 1   | S93 and(bio adj mineralized adj unicellular adj organisms or shell adj architectures)  | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/23 11:35 |
| S96  | 34  | S93 and(scaling or copying or combining or optimizing)   | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/23 11:37 |
| S97  | 11  | S96 and(@ad<"20031130" or @rlad<"20031130" or @prad<"20031130" or @ptad<"20031130")  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB       | OR | ON | 2009/07/23 11:37 |
| S98  | 9   | S96 and @ad<"20031130"   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB       | OR | ON | 2009/07/23 11:37 |
| S99  | 157 | S73 and(rim adj bed or rim adj body or circular adj disc or radial adj spokes or annular adj spoke or spoke adj structure or central adj bore or rounding or bore) | USPAT   | OR | ON | 2009/07/23 11:48 |
| S100 | 1   | S99 and(CAD or SEM or arachnoidiscus or FEM or finite adj element adj method)and (model\$1 or prototype or template)   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB       | OR | ON | 2009/07/23 11:48 |
| S101 | 0   | S99 and(bio adj mineralized adj unicellular adj organisms or shell adj architectures)  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB       | OR | ON | 2009/07/23 11:49 |
| S102 | 7   | S99 and(scaling or copying or combining or optimizing)   | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/23 11:50 |
| S103 | 252 | S78 and(rim adj bed or rim adj body or circular adj disc or radial adj spokes or annular adj spoke or spoke adj structure or central adj bore or rounding or bore) | USPAT   | OR | ON | 2009/07/23 11:52 |

|      |      |  |   |    |    |                     |
|------|------|--|---|----|----|---------------------|
| S104 | 2    | S103 and(CAD or SEM or arachnoidiscus or FEM or finite adj element adj method)and (model\$1 or prototype or template)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR | ON | 2009/07/23<br>11:52 |
| S105 | 0    | S104 and(bio adj mineralized adj unicellular adj organisms or shell adj architectures)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR | ON | 2009/07/23<br>11:52 |
| S106 | 2    | S104 and(scaling or copying or combining or optimizing)  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/23<br>11:52 |
| S107 | 2    | S106 and @ad<"20031130"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR | ON | 2009/07/23<br>11:53 |
| S108 | 0    | S104 and(bio adj mineralized adj unicellular adj organisms or shell adj architectures or shell)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR | ON | 2009/07/23<br>11:54 |
| S109 | 3337 | S90 and(rim adj bed or rim adj body or circular adj disc or radial adj spokes or annular adj spoke or spoke adj structure or central adj bore or rounding or bore) | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/23<br>11:57 |
| S110 | 2    | S103 and(CAD or SEM or arachnoidiscus or FEM or finite adj element adj method)and (model\$1 or prototype or template)and stereolithography                         | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR | ON | 2009/07/23<br>11:57 |
| S111 | 6    | S109 and(CAD or SEM or arachnoidiscus or FEM or finite adj element adj method)and (model\$1 or prototype or template)and stereolithography                         | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR | ON | 2009/07/23<br>11:57 |
| S112 | 6    | S111 and(bio adj mineralized adj unicellular adj organisms or shell adj architectures oe shell)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR | ON | 2009/07/23<br>11:58 |
| S113 | 4    | S112 and(scaling or copying or combining or optimizing)  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/23<br>11:58 |

|      |   |  |   |    |    |                     |
|------|---|--|---|----|----|---------------------|
| S114 | 0 | S113 and @ad<"20031130"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR | ON | 2009/07/23<br>11:58 |
| S115 | 4 | S113 and(bio adj mineralized<br>adj unicellular adj organisms or<br>shell adj architectures or shell)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR | ON | 2009/07/23<br>12:00 |
| S116 | 0 | S113 and bio adj mineralized<br>adj unicellular adj organisms  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR | ON | 2009/07/23<br>12:00 |
| S117 | 4 | S66 and(rim adj bed or rim adj<br>body or circular adj disc or<br>radial adj spokes or annular adj<br>spoke or spoke adj structure or<br>central adj bore or rounding or<br>bore)  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/23<br>12:02 |
| S118 | 1 | (automotive and vehicle and<br>inner adj rim adj body and<br>outer adj rim and spoke adj<br>structure and determining and<br>structural adj data and<br>prototype and lightweight and<br>radial adj spokes and width and<br>annular adj spokes).CLM. | US-PGPUB  | OR | ON | 2009/07/23<br>12:05 |

1/ 25/ 10 2:56:01 PM

C:\ Documents and Settings\ Schawan\ My Documents\ EAST\ Workspaces\ 0301.wsp